

ABSTRACT OF THE DISCLOSURE

A communication system wherein each endpoint device which has received an interrogating signal from an interrogator responds with a reflected signal generated by modulating the interrogating signal with appropriate information, wherein each endpoint device includes a distance detecting portion operable to detect a distance between the interrogator and the endpoint device, a reflecting portion operable to receive and reflect the interrogating signal, an information generating portion operable to generate replying information to be transmitted to the interrogator, a band determining portion operable to determine, on the basis of the detected distance, a frequency band of a modulating signal used to modulate a reflected signal generated by the reflecting portion, and a modulating-signal generating portion operable, according to the replying information, to generate the modulating signal having a frequency within the determined frequency band. The distance detecting portion may be provided in the interrogator, rather than in the endpoint device. The frequency of the modulating signal may be determined on the basis of the number of the endpoint devices ready for communication with the interrogator, or a distribution of overall frequency utilization ratio of the reflected signals received from the individual endpoint devices.